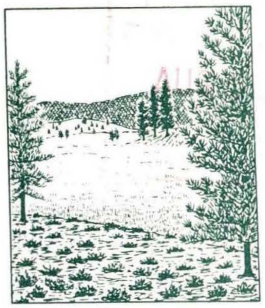
FOREST RESEARCH NOTES

CALIFORNIA FOREST AND RANGE EXPERIMENT STATION
GEORGE M JEMISON, DIRECTOR

U.S. DEPARTMENT OF AGRICULTURE – FOREST SERVICE



INTERMOUNTAIN STATION
Central Reference File VR
No. 0.73

No. 97

August 25, 1955

X2.261

CALIFORNIA CONE CROP--1955

Gilbert H. Schubert, forester,
Division of Forest Management Research

California forest trees produced a good cone crop in only a few localities in 1955. Generally the crop was fair or less, with no crops or poor crops about as frequent as fair ones. These are the main conclusions from a study of cone-crop reports furnished the California Forest and Range Experiment Station by members of the California Division of Forestry and of the administrative branch of the U. S. Forest Service. The reports were based on occular estimates in which the crop was rated as none, very poor, poor, fair, and good. Although subjective, the ratings provide valuable information for those planning to collect seed.

As an aid to seed collectors, the crop reports have been segregated according to the forest tree seed collection zones described by Fowells. 1/ This grouping (table 1), showed that the most promising localities for collecting seed of important species were as follows:

Redwood	Zone XIII
Giant sequoia ...	Zones IV and V
Sugar pine	Zone IV
Douglas-fir	Zone XI
Red fir	Zone II (lower part) and Zone IV (upper)
White fir	Zone IV
Coulter pine	San Benito County

A map of the collection zones is appended to this note, but since the seed crop varies widely in some zones, it is also advisable to consult field officers of the California Division of Forestry or the U. S. Forest Service.

1/ Fowells, H. A. Forest tree seed collection zones in California. U. S. Forest Service. Calif. Forest and Range Expt. Sta. Res. Note 51, 5 pp., illus. 1946.

IE - BERKELEY

INT-FILE COPY

Table 1.--Summary of cone crops by species and seed zone, California, 1955

Species	County or Seed Collection Zone	Cone Crop 1/
DOUGLAS-FIR:		
Bigcone Douglas-fir (*Pseudotsuga macrocarpa*)	IX	Poor
Douglas-fir (*P. menziesii*)	II	Poor to fair
	IV, V	None
	XI	None to good
	XII, XIII	Fair
FIR:		
Lowland white fir (*Abies grandis*)	XIII	Fair
Red fir (*A. magnifica*)	III	Poor to fair
	II, IV	None to good
	V	None
	X	Fair
Silver fir (*A. amabilis*)	X	Poor
White fir (*A. concolor*)	II, III	Poor
	IV	None to good
	V	None
	X	Fair
PINE:		
Bishop pine (*Pinus muricata*)	XIII	Fair
Coulter pine (*P. coulteri*)	Contra Costa	Poor to fair
	San Benito	Good
Jeffrey pine (*P. jeffreyi*)	I	Fair
	II, III, IV, V, VI, VIII, IX, X	None to poor
Lodgepole pine (*P. contorta*)	XIII	Fair
Monterey pine (*P. radiata*)	XIII	Fair
Ponderosa pine (*P. ponderosa*)	I	None to fair
	II, IV	None to poor
	V, VI, VIII, X	None
Sugar pine (*P. lambertiana*)	II, III	Very poor to poor
	IV	None to good
	V, X	Poor
SEQUOIA:		
Giant sequoia (*Sequoia gigantea*)	IV, V	Fair to good
Redwood (*S. sempervirens*)	XII	Fair
	XIII	Good

1/ Reported by technicians of the California Division of Forestry and the California Region, U. S. Forest Service.

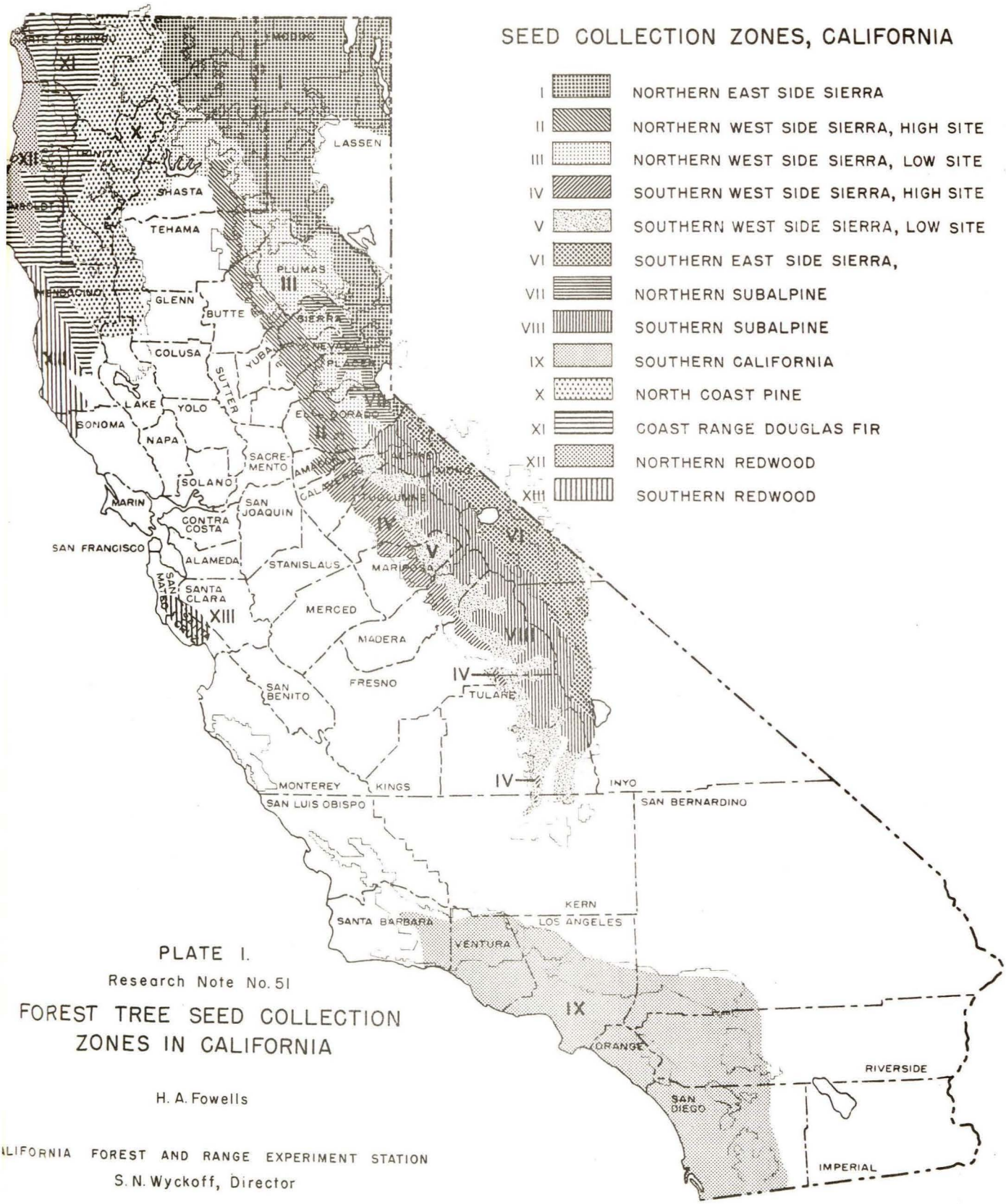


PLATE I.

Research Note No. 51

FOREST TREE SEED COLLECTION ZONES IN CALIFORNIA

H. A. Fowells

ILIFORNIA FOREST AND RANGE EXPERIMENT STATION

S. N. Wyckoff, Director

REST SERVICE - U. S. DEPARTMENT OF AGRICULTURE